

Contents

Volume 253 (1991)

Special Issue

2-Amino-*N*⁶-hydroxyadenine

edited by Frederick J. de Serres and David G. Hoel

Objectives of the collaborative study on the genetic toxicology of 2-amino- <i>N</i> ⁶ -hydroxyadenine: an exercise in genetic risk assessment F.J. de Serres and D.G. Hoel (U.S.A.)	1
The genetic toxicology of 2-amino- <i>N</i> ⁶ -hydroxyadenine in eukaryotic organisms: Significance for genetic risk assessment F.J. de Serres (U.S.A.)	5
Base-pairing models to account for the mutagenicity and specificity of the purine analog 2-amino- <i>N</i> ⁶ -hydroxyadenine C. Janion (Poland)	17
2-Amino- <i>N</i> ⁶ -hydroxyadenine induces gene/point mutations and multiple-locus mutations, but not multilocus deletion mutations, in the <i>ad-3</i> region of a two-component heterokaryon of <i>Neurospora crassa</i> F.J. de Serres, H.E. Brockman and L.K. Overton (U.S.A.)	21
The genetic activity of <i>N</i> ⁶ -hydroxyadenine and 2-amino- <i>N</i> ⁶ -hydroxyadenine in <i>Escherichia coli</i> , <i>Salmonella typhimurium</i> and <i>Saccharomyces cerevisiae</i> Y.I. Pavlov, V.N. Noskov, E.K. Lange, E.V. Moiseeva, M.R. Pshenichnov and N.N. Khromov-Borisov (U.S.S.R.)	33
Analysis of 2-amino- <i>N</i> ⁶ -hydroxyadenine-induced mutagenesis in phage M13mp2 H. Tsuchiyama, G.-i. Atsumi, A. Matsuda, K. Negishi and H. Hayatsu (Japan)	47
The mutagenicity of 2-amino- <i>N</i> ⁶ -hydroxyadenine to L5178Y <i>tk</i> ^{+/−} 3.7.2C mouse lymphoma cells: measurement of mutations to ouabain, 6-thioguanine and trifluorothymidine resistance, and the induction of micronuclei J. Cole, F.N. Richmond and B.A. Bridges (Great Britain)	55
Genotoxicity of 2-amino-6- <i>N</i> -hydroxyadenine (AHA) to mouse lymphoma and CHO cells M.M. Moore, K. Harrington-Brock, L. Parker, C.L. Doerr and J.C. Hozier (U.S.A.)	63
Mutagenicity of 2-amino- <i>N</i> ⁶ -hydroxyadenine (AHA) at three loci in L5178Y <i>tk</i> ^{+/−} mouse lymphoma cells: molecular and preliminary cytogenetic characterizations of AHA-induced <i>tk</i> ^{−/−} mutants D. Clive, P. Glover, R. Krehl and P. Poorman-Allen (U.S.A.)	73
Mutagenicity of 2-amino- <i>N</i> ⁶ -hydroxyadenine at the <i>tk</i> locus in L5178Y strains differing in repair capabilities and karyotype H.H. Evans, J. Mencl, M. Ricanati, C. DiSalvo and M.E. Varnes (U.S.A.)	83
Mutagenicity of 2-amino- <i>N</i> ⁶ -hydroxyadenine to TK6 human lymphoblast cells H.L. Liber and C.M. Denault (U.S.A.)	91
Mutagenic properties of 2-amino- <i>N</i> ⁶ -hydroxyadenine in <i>Salmonella</i> and in Chinese hamster lung cells in culture M. Nagao, M. Nakayasu, S. Aonuma, K. Wakabayashi, M. Hirose and T. Sugimura (Japan)	97
In vitro and in vivo analysis of somatic and germline mutability of 2-amino- <i>N</i> ⁶ -hydroxyadenine in <i>Drosophila melanogaster</i> P.D. Smith, S.F. Lee-Chen, C.A. Liljestrand and R.L. Dusenbery (U.S.A.)	103
Mutagenic activity of 2-amino- <i>N</i> ⁶ -hydroxyadenine in the mouse spot test A. Neuhäuser-Klaus (Germany)	109
[end of special issue]	
 <i>Research Papers</i>	
What indication is common to different genotoxicity data bases? R. Benigni and A. Giuliani (Italy)	115
Treatment of mice with a herbal preparation (Liv. 52) reduces the frequency of radiation-induced chromosome damage in bone marrow G.C. Jagetia and N.G. Ganapathi (India)	123

Evaluating the relationship of metabolic activation system concentrations and chemical dose concentrations for the <i>Salmonella</i> spiral and plate assays L.D. Claxton, V.S. Houk, J.C. Allison and J. Creason (U.S.A.)	127
Assessing the use of known mutagens to calibrate the <i>Salmonella typhimurium</i> mutagenicity assay: I. Without exogenous activation L.D. Claxton, V.S. Houk, L.G. Monteith, L.E. Myers and T.J. Hughes (U.S.A.)	137
Assessing the use of known mutagens to calibrate the <i>Salmonella typhimurium</i> mutagenicity assay: II. With exogenous activation L.D. Claxton, V.S. Houk, J.R. Warner, L.E. Myers and T.J. Hughes (U.S.A.)	149
A cytogenetic approach for detecting the selective toxicity of drugs in avian embryonic B and T lymphocytes J.L. Wilmer and S.E. Bloom (U.S.A.)	161
Application of the neutral red assay (NR assay) to monolayer cultures of primary hepatocytes: rapid colorimetric viability determination for the unscheduled DNA synthesis test (UDS) R. Fautz, B. Husein and C. Hechenberger (F.R.G.)	173
Inhibition of dinitropyrene mutagenicity in vitro and in vivo using <i>Salmonella typhimurium</i> and the intrasanguineous host-mediated assay A.B. Shah, I.R. Rowland and R.D. Combes (Great Britain)	181
Induction of micronuclei by X-radiation in human, mouse and rat peripheral blood lymphocytes G.L. Erexson, A.D. Kligerman, M.F. Bryant, M.R. Sontag and E.C. Halperin (U.S.A.)	193
Use of the clonal assay for the measurement of frequencies of HPRT mutants in T-lymphocytes from five control populations A.D. Tate, F.J. Van Dam, H. Van Mossel, H. Schoemaker, J.C.P. Thijssen, V.M. Woldring, A.H. Zwiderman and A.T. Natarajan (The Netherlands)	199
A microplate version of the SOS/ <i>umu</i> -test for rapid detection of genotoxins and genotoxic potentials of environmental samples G. Reifferscheid, J. Heil, Y. Oda and R.K. Zahn (F.R.G., Japan)	215
Radiation dosimetry by automatic image analysis of dicentric chromosomes R. Bayley, A. Carothers, X. Chen, S. Farrow, J. Gordon, L. Ji, J. Piper, D. Rutovitz, M. Stark and N. Wald (Great Britain, U.S.A.)	223
Quantification of the predictivity of some short-term assays for carcinogenicity in rodents G. Klopman and H.S. Rosenkranz (U.S.A.)	237
<i>Environmental Mutagen Society of Japan</i>	
Selected Abstracts of the 19th Annual Meeting 29-31 October 1990, Fukuoka (Japan)	241
<i>Announcement</i>	289
<i>Contents, Vol. 253 (1991)</i>	291

